

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Leif Andersson et al. Art Unit : Unknown
Serial No. : 10/070,794 Examiner : Unknown
Filed : March 8, 2002
Title : VARIANTS OF THE GAMMA CHAIN OF AMPK, DNA SEQUENCES
ENCODING THE SAME, AND USES THEREOF

BOX PCT

Commissioner for Patents
Washington, DC 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the specification:

Replace the paragraph beginning at page 30, line 35, with the following rewritten paragraph:

-- A part of *PRKAG3* including codon 41 was amplified in 10 μ l reactions containing 100 ng genomic DNA, 0.2 mM dNTPs, 1.5 mM MgCl₂, 4.0 pmol of both forward (AMPKG3F3:5'-GGAGCAAATGTGCAGACAAG-3') (SEQ ID NO:33) and reverse (AMPKG3R2:5'-CCCACGAAGCTCTGCTTCTT-3') (SEQ ID NO:34) primer, 10% DMSO, 1 U of *Taq* DNA polymerase and reaction buffer (ADVANCED BIOTECH, London, UK). The cycling conditions included an initial incubation at 94° for 5 min followed by 3 cycles at 94°C (1 min), 57°C (1 min) and 72°C (1 min), and 35 cycles of 94°C (20 sec), 55°C (30 sec) and 72°C (30 sec). Allele discrimination at nucleotide position 122 was done using the oligonucleotide ligation assay (OLA, LANDEGREN, *et al.*, Science, 241, 1077-1080, 1988). The OLA method was carried out as a gel-based assay. Each 10 μ l OLA reaction contained 0.5 pmol of each probe SNPRN-A (5'Hex-TGGCCAACGGCGTCCA-3') (SEQ ID NO:35), SNPRN-G (5'ROX-GGCCAACGGCGTCCG-3') (SEQ ID NO:36) and SNRPN-Common (5'phosphate-AGCGGCACCTTTGTGAAAAAAAAAAAA-3') (SEQ ID NO:37), 1.5 U of thermostable AMPLIGASE and reaction buffer (EPICENTRE TECHNOLOGIES, Madison, WI) and 0.5 μ l of

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV115424896US

October 4, 2002

Date of Deposit